

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/896,896A

DATE: 05/29/2002 TIME: 17:50:23

Input Set : A:\0217us210-Sequencelisting-corrMay2002.txt Output Set: N:\CRF3\05292002\I896896A.raw

ENTERED

```
3 <110> APPLICANT: MAXYGEN APS
```

- 5 <120> TITLE OF INVENTION: PEPTIDE EXTENDED GLYCOSYLATED POLYPEPTIDES
- 7 <130> FILE REFERENCE: 0217us210
- 9 <140> CURRENT APPLICATION NUMBER: US 09/896,896A
- 10 <141> CURRENT FILING DATE: 2001-06-29
- 12 <150> PRIOR APPLICATION NUMBER: US 60/217,497
- 13 <151> PRIOR FILING DATE: 2000-07-11
- 15 <150> PRIOR APPLICATION NUMBER: US 60/225,558
- 16 <151> PRIOR FILING DATE: 2000-08-16
- 18 <150> PRIOR APPLICATION NUMBER: DK PA 2000 01027
- 19 <151> PRIOR FILING DATE: 2000-06-30
- 21 <150> PRIOR APPLICATION NUMBER: DK PA 2000 01092
- 22 <151> PRIOR FILING DATE: 2000-07-14
- 24 <150> PRIOR APPLICATION NUMBER: PCT/DK00/00743
- 25 <151> PRIOR FILING DATE: 2000-12-29
- 27 <150> PRIOR APPLICATION NUMBER: PCT/DK01/00090
- 28 <151> PRIOR FILING DATE: 2001-02-09
- 30 <160> NUMBER OF SEQ ID NOS: 123
- 32 <170> SOFTWARE: PatentIn Ver. 2.1
- 34 <210> SEQ ID NO: 1
- 35 <211> LENGTH: 497
- 36 <212> TYPE: PRT
- 37 <213> ORGANISM: Homo sapiens
- 39 <220> FEATURE:
- 40 <221> NAME/KEY: MOD\_RES
- 41 <222> LOCATION: (495)
- 42 <223> OTHER INFORMATION: R or H 44 <400> SEQUENCE: 1
- 45 Ala Arg Pro Cys Ile Pro Lys Ser Phe Gly Tyr Ser Ser Val Val Cys 46 1 10 15
- 48 Val Cys Asn Ala Thr Tyr Cys Asp Ser Phe Asp Pro Pro Thr Phe Pro 25
- 20
- 51 Ala Leu Gly Thr Phe Ser Arg Tyr Glu Ser Thr Arg Ser Gly Arg Arg 52 35 40 45
- 54 Met Glu Leu Ser Met Gly Pro Ile Gln Ala Asn His Thr Gly Thr Gly 55 55 50 60
- 57 Leu Leu Leu Thr Leu Gln Pro Glu Gln Lys Phe Gln Lys Val Lys Gly
- 58 65 70 75
- 60 Phe Gly Gly Ala Met Thr Asp Ala Ala Leu Asn Ile Leu Ala Leu 90 61 8.5
- 63 Ser Pro Pro Ala Gln Asn Leu Leu Leu Lys Ser Tyr Phe Ser Glu Glu
- 64 105 100
- 66 Gly Ile Gly Tyr Asn Ile Ile Arg Val Pro Met Ala Ser Cys Asp Phe

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/896,896A

DATE: 05/29/2002 TIME: 17:50:23

## Input Set: A:\0217us210-Sequencelisting-corrMay2002.txt Output Set: N:\CRF3\05292002\1896896A.raw

```
120
          115
  69 Ser Ile Arg Thr Tyr Thr Tyr Ala Asp Thr Pro Asp Asp Phe Gln Leu
                                       140
  70 130
                     135
  72 His Asn Phe Ser Leu Pro Glu Glu Asp Thr Lys Leu Lys Ile Pro Leu
  73 145 150
                                  155
  75 Ile His Arg Ala Leu Gln Leu Ala Gln Arg Pro Val Ser Leu Leu Ala
              165
                                170
  78 Ser Pro Trp Thr Ser Pro Thr Trp Leu Lys Thr Asn Gly Ala Val Asn
  79 180
                              185
                                            190
  81 Gly Lys Gly Ser Leu Lys Gly Gln Pro Gly Asp Ile Tyr His Gln Thr
  82 195
                           200
                                          205
  84 Trp Ala Arg Tyr Phe Val Lys Phe Leu Asp Ala Tyr Ala Glu His Lys
  85 210 215
                                       220
  87 Leu Gln Phe Trp Ala Val Thr Ala Glu Asn Glu Pro Ser Ala Gly Leu
  88 225 230 235
  90 Leu Ser Gly Tyr Pro Phe Gln Cys Leu Gly Phe Thr Pro Glu His Gln
                245 250
  93 Arg Asp Phe Ile Ala Arg Asp Leu Gly Pro Thr Leu Ala Asn Ser Thr
  94 260 265
  96 His His Asn Val Arg Leu Leu Met Leu Asp Asp Gln Arg Leu Leu
                280 285
  97 275
  99 Pro His Trp Ala Lys Val Val Leu Thr Asp Pro Glu Ala Ala Lys Tyr
                        295 300
   100 290
   102 Val His Gly Ile Ala Val His Trp Tyr Leu Asp Phe Leu Ala Pro Ala
   103 305
                     310
                            315
   105 Lys Ala Thr Leu Gly Glu Thr His Arg Leu Phe Pro Asn Thr Met Leu
                                 330 335
                 325
   106
   108 Phe Ala Ser Glu Ala Cys Val Gly Ser Lys Phe Trp Glu Gln Ser Val
                              345 - 350
   109 340
   lll Arg Leu Gly Ser Trp Asp Arg Gly Met Gln Tyr Ser His Ser Ile Ile
                           360
                                 365
   112 355
   114 Thr Asn Leu Leu Tyr His Val Val Gly Trp Thr Asp Trp Asn Leu Ala
                                        380
                        375
   115 370
   117 Leu Asn Pro Glu Gly Gly Pro Asn Trp Val Arg Asn Phe Val Asp Ser
                                     395
                      390
   120 Pro Ile Ile Val Asp Ile Thr Lys Asp Thr Phe Tyr Lys Gln Pro Met
                                  410 415
   121
                  405
   123 Phe Tyr His Leu Gly His Phe Ser Lys Phe Ile Pro Glu Gly Ser Gln
                               425
            420
   126 Arg Val Gly Leu Val Ala Ser Gln Lys Asn Asp Leu Asp Ala Val Ala
   127 435
                           440
   129 Leu Met His Pro Asp Gly Ser Ala Val Val Val Leu Asn Arg Ser
                         455
   130 450
   132 Ser Lys Asp Val Pro Leu Thr Ile Lys Asp Pro Ala Val Gly Phe Leu
                                     475
   133 465
                     470
135 Glu Thr Ile Ser Pro Gly Tyr Ser Ile His Thr Tyr Leu Trp Xaa Arg
   136
                                  490
   138 Gln
   141 <210> SEQ ID NO: 2
```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/896,896A

DATE: 05/29/2002 TIME: 17:50:23

Input Set : A:\0217us210-Sequencelisting-corrMay2002.txt Output Set: N:\CRF3\05292002\1896896A.raw

```
142 <211> LENGTH: 1551
 143 <212> TYPE: DNA
 144 <213> ORGANISM: Homo sapiens
 146 <400> SEQUENCE: 2
 147 atggctggca gcctcacagg attgcttcta cttcaggcag tgtcgtgggc atcaggtgcc 60
 148 cgcccetgca tccctaaaag cttcggctac agetcggtgg tgtgtgtctg caatgccaca 120
 149 tactgtgact cetttgaccc eccgacettt ectgecettg gtacetteag ecgetatgag 180
 150 agtacacqca qtgggcgacg gatggagctg agtatggggc ccatccaggc taatcacacg 240
 151 ggcacaggcc tgctactgac cctgcagcca gaacagaagt tccagaaagt gaagggattt 300
 152 ggaggggcca tgacagatgc tgctgctctc aacatccttg ccctgtcacc ccctgcccaa 360
 153 aatttgctac ttaaatcgta cttctctgaa gaaggaatcg gatataacat catccgggta 420
154 cccatggcca gctgtgactt ctccatccgc acctacacct atgcagacac ccctgatgat 480
155 ttccagttgc acaacttcag cctcccagag gaagatacca agctcaagat acccctgatt 540
156 cacegageac tgcagttgge ccagegtece gtttcactec ttgccagece etggacatea 600
157 cccacttggc tcaagaccaa tggagcggtg aatgggaagg ggtcactcaa gggacagece 660
158 ggagacatct accaccagac ctgggccaga tactttgtga agttcctgga tgcctatgct 720
159 gagcacaagt tacagttetg ggcagtgaca getgaaaatg agcettetge tgggetgttg 780
 160 agtggatace cettecagtg cetgggette acceetgaac atcagegaga ettaattgee 840
 161 cgtgacctag gtcctaccct cgccaacagt actcaccaca atgtccgcct actcatgctg 900
 162 gatgaccaac gettgetget gecceaetgg geaaaggtgg tgetgacaga eecagaagca 960
 163 gctaaatatg ttcatggcat tgctgtacat tggtacctgg actttctggc tccagccaaa 1020
 164 gccaccctag gggagacaca ccgcctgttc cccaacacca tgctctttqc ctcagaggcc 1080
 165 tgtgtggget ccaagttetg ggagcagagt gtgcggctag geteetggga tegagggatg 1140
 166 cagtacagec acageateat caegaacete etgtaceatg tggteggetg gaeegaetgg 1200
 167 aaccttgeec tgaacceega aggaggacce aattgggtge gtaactttgt egacagteec 1260
 168 atcattgtag acatcaccaa ggacacgttt tacaaacagc ccatgttcta ccaccttggc 1320
169 catttcagca agttcattcc tgagggetcc cagagagtgg ggctggttgc cagtcagaag 1380
 170 aacgacctgg acgcagtggc attgatgcat cccgatggct ctgctgttgt ggtcgtgcta 1440
 171 aaccgctcct ctaaggatgt gcctcttacc atcaaggatc ctgctgtggg cttcctggag 1500
 172 acaateteac etggetacte catteacace tacetgtgge gtegecagtg a
 175 <210> SEQ ID NO: 3
 176 <211> LENGTH: 6186
 177 <212> TYPE: DNA
 178 <213> ORGANISM: Artificial sequence
 180 <220> FEATURE:
 181 <221> NAME/KEY: exon
 182 <222> LOCATION: (1225)..(1572)
 183 <223> OTHER INFORMATION: Coding sequence for human FSH-alpha
 185 <400> SEOUENCE: 3
 186 gacggategg gagatetece gatecectat ggtegactet cagtacaate tgetetgatg
                                                                           60
 188 cogcatagtt aagccagtat etgeteeetg ettgtgtgtt ggaggteget gagtagtgeg
                                                                           180
 190 cgagcaaaat ttaagctaca acaaggcaag gcttgaccga caattgcatg aagaatctgc
 192 ttagggttag gegttttgeg etgettegeg atgtaeggge eagatataeg egttgacatt
 194 gattattgac tagttattaa tagtaatcaa ttacggggtc attagttcat agcccatata
                                                                           300
 196 tggagttccg cgttacataa cttacggtaa atggcccgcc tggctgaccg cccaacgacc
                                                                          360
                                                                          420
 198 cccgcccatt gacgtcaata atgacgtatg ttcccatagt aacgccaata gggactttcc
 200 attgacgtca atgggtggac tatttacggt aaactgccca cttggcagta catcaagtgt
                                                                          480
 202 atcatatgcc aagtacgccc cctattgacg tcaatgacgg taaatggccc gcctggcatt
                                                                           540
 204 atgcccagta catgacetta tgggacette etaettggca gtacatetae gtattagtea
```

600

RAW SEQUENCE LISTING DATE: 05/29/2002
PATENT APPLICATION: US/09/896,896A TIME: 17:50:23

## Input Set: A:\0217us210-Sequencelisting-corrMay2002.txt Output Set: N:\CRF3\05292002\1896896A.raw

```
206 tegetattae catggtgatg eggttttgge agtacateaa tgggegtgga tageggtttg
                                                                         660
208 actcacgggg atttccaagt ctccaccca ttgacgtcaa tgggagtttg ttttggcacc
                                                                         720
210 aaaatcaacg ggactttcca aaatgtcgta acaactccgc cccattgacg caaatgggcg
                                                                         780
212 gtaggcgtgt acggtgggag gtctatataa gcagagctct ctggctaact agagaaccca
                                                                         840
214 ctgcttactg gcttatcgaa attaatacga ctcactatag ggagacccaa gctggctagc
                                                                        900
216 ttattgcggt agtttatcac agttaaattg ctaacgcagt cagtgcttct gacacaacag
218 totogaactt aagotgoagt gactototta aggtagoott goagaagttg gtogtgaggo
220 actgggcagg taagtatcaa ggttacaaga caggtttaag gagaccaata gaaactgggc
                                                                        1080
222 ttqtcqaqac agagaagact cttgcgtttc tgataggcac ctattggtct tactgacatc
                                                                        1140
224 cactttgcct ttctctccac aggtgtccac tcccagttca attacagctc ttaaaagctt
                                                                        1200
226 ggtaccgage teggateege cace atg gac tac tac ege aag tac gee gee
                                                                        1251
                               Met Asp Tyr Tyr Arg Lys Tyr Ala Ala
227
228
                                                                        1299
230 atc ttc ctg gtg acc ctg agc gtg ttc ctg cac gtg ctg cac agc gcc
231 Ile Phe Leu Val Thr Leu Ser Val Phe Leu His Val Leu His Ser Ala
                        15
                                            20
234 ccc gac gtg cag gac tgc ccc gag tgc acc ctg cag gag aac ccc ttc
                                                                        1347
235 Pro Asp Val Gln Asp Cys Pro Glu Cys Thr Leu Gln Glu Asn Pro Phe
                                        35
                    30
238 ttc agc cag ccc ggc gcc ccc atc ctg cag tgc atg ggc tgc tgc ttc
                                                                        1395
239 Phe Ser Gln Pro Gly Ala Pro Ile Leu Gln Cys Met Gly Cys Cys Phe
                                    5.0
                                                                        1443
242 ago ogo que tac oco aco oco otg ogo ago aag aag aco atg otg gtg
243 Ser Arg Ala Tyr Pro Thr Pro Leu Arg Ser Lys Lys Thr Met Leu Val
244
                                65
                                                                        1491
246 cag aag aac gtg acc age gag age acc tgc tgc gtg gcc aag age tac
247 Gln Lys Asn Val Thr Ser Glu Ser Thr Cys Cys Val Ala Lys Ser Tyr
                                                85
250 aac cgc gtg acc gtg atg ggc ggc ttc aag gtg gag aac cac acc gcc
                                                                        1539
251 Asn Arg Val Thr Val Met Gly Gly Phe Lys Val Glu Asn His Thr Ala
252 90
                        95
                                            100
254 tgc cac tgc agc acc tgc tac tac cac aag agc taatctagag ggcccgttta
                                                                        1592
255 Cys His Cys Ser Thr Cys Tyr Tyr His Lys Ser
                    110
                                        115
258 aaccogotga toagootoga otgtgootto tagttgooag coatotgttg tttgoocoto
                                                                        1652
260 ecceptgeet teettgacee tggaaggtge cacteceact gteetteet aataaaatga
                                                                        1712
262 ggaaattgca togcattgto tgagtaggtg toattotatt ctggggggtg gggtggggca
264 ggacagcaag ggggaggatt gggaagacaa tagcaggcat gctggggatg cggtgggetc
266 tatggettet gaggeggaaa gaaccagetg gggetetagg gggtateece aegegeeetg
268 tageggegea ttaagegegg egggtgtggt ggttaegege agegtgaeeg etacaettge
270 cagegeceta gegecegete etttegettt ettecettee tttetegeca egttegeegg
272 ctttccccgt caagctctaa atcggggcat ccctttaggg ttccgattta gtgctttacg
274 gcacctcgac cccaaaaaac ttgattaggg tgatggttca cgtagtgggc catcgccctg
276 atagacggtt tttcgccctt tgacgttgga gtccacgttc tttaatagtg gactcttgtt
278 ccaaactgga acaacactca accetatete ggtetattet tttgatttat aagggatttt
                                                                        2312
280 ggggatttcg gcctattggt taaaaaatga gctgatttaa caaaaattta acgcgaatta
282 attctgtgga atgtgtgtca gttagggtgt ggaaagtccc caggctcccc aggcaggcag
284 aagtatgcaa agcatgcatc tcaattagtc agcaaccagg tgtggaaagt ccccaggctc
                                                                        2432
286 cccagcaggc agaagtatgc aaagcatgca totcaattag tcagcaacca tagtcccgcc
                                                                        2492
```

RAW SEQUENCE LISTING

RAW SEQUENCE LISTING DATE: 05/29/2002 PATENT APPLICATION: US/09/896,896A TIME: 17:50:23

Input Set : A:\0217us210-Sequencelisting-corrMay2002.txt

Output Set: N:\CRF3\05292002\1896896A.raw

288	cctaactccg	cccatcccgc	ccctaactcc	gcccagttcc	gcccattctc	cgccccatgg	2552
290	ctgactaatt	ttttttattt	atgcagaggc	egaggeegee	tctgcctctg	agctattcca	2612
292	gaagtagtga	ggaggctttt	ttggaggcct	aggettttge	aaaaagctcc	cgggagcttg	2672
294	tatatccatt	ttcggatctg	atcagcacgt	gatgaaaaag	cctgaactca	ccgcgacgtc	2732
296	tgtcgagaag	tttctgatcg	aaaagttcga	cagcgtctcc	gacctgatgc	agctctcgga	2792
298	gggcgaagaa	tctcqtqctt	tcagcttcga	tgtaggaggg	cgtggatatg	tcctgcgggt	2852
300	aaatagetge	gccgatggtt	tctacaaaga	tcgttatgtt	tatcggcact	ttgcatcggc	2912
302	egegeteeeg	attccggaag	tgcttgacat	tggggaattc	agcgagagcc	tgacctattg	2972
304	catctcccqc	cgtgcacagg	gtgtcacgtt	gcaagacctg	cctgaaaccg	aactgcccgc	3032
306	tqttctqcaq	ccggtcgcgg	aggccatgga	tgcgatcgct	geggeegate	ttagccagac	3092
308	qaqcqqqttc	ggcccattcg	gaccgcaagg	aatcggtcaa	tacactacat	ggcgtgattt	3152
310	catatgcgcg	attgctgatc	cccatgtgta	tcactggcaa	actgtgatgg	acgacaccgt	3212
312	cagtgcgtcc	gtcgcgcagg	ctctcgatga	gctgatgctt	tgggccgagg	actgccccga	3272
314	agtccggcac	ctcgtgcacg	cggatttcgg	ctccaacaat	gtcctgacgg	acaatggccg	3332
316	cataacagcg	gtcattgact	ggagegagge	gatgttcggg	gattcccaat	acgaggtcgc	3392
318	caacatcttc	ttctggaggc	cgtggttggc	ttgtatggag	cagcagacgc	gctacttcga	3452
320	geggaggeat	ccggagcttg	caggatcgcc	geggeteegg	gegtatatge	teegeattgg	3512
322	tettgaccaa	ctctatcaga	gcttggttga	cggcaatttc	gatgatgcag	cttgggcgca	3572
324	gggtcgatgc	gacgcaatcg	teegateegg	agccgggact	gtcgggcgta	cacaaatcgc	3632
326	ccqcaqaaqc	geggeegtet	ggaccgatgg	ctgtgtagaa	gtactcgccg	atagtggaaa	3692
328	ccqacqcccc	agcactcgtc	cgagggcaaa	ggaatagcac	gtgctacgag	atttcgattc	3752
330	caccqccqcc	ttctatgaaa	ggttgggctt	cggaatcgtt	ttccgggacg	ccggctggat	3812
332	gatectecag	cgcggggatc	tcatgctgga	gttcttcgcc	caccccaact	tgtttattgc	3872
334	agcttataat	ggttacaaat	aaagcaatag	catcacaaat	ttcacaaata	aagcattttt	3932
336	ttcactgcat	tctagttgtg	gtttgtccaa	actcatcaat	gtatcttatc	atgtctgtat	3992
338	accettegace	tctagctaga	gcttggcgta	atcatggtca	tagctgtttc	ctgtgtgaaa	4052
340	ttgttatccg	ctcacaattc	cacacaacat	acgagccgga	agcataaagt	gtaaagcctg	4112
342	gggtgcctaa	tgagtgagct	aactcacatt	aattgcgttg	cgctcactgc	ccgctttcca	4172
344	gtcgggaaac	ctgtcgtgcc	agctgcatta	atgaatcggc	caacgcgcgg	ggagaggcgg	4232
346	tttgcgtatt	gggcgctctt	ccgcttcctc	gctcactgac	tegetgeget	cggtcgttcg	4292
348	gctgcggcga	gcggtatcag	ctcactcaaa	ggcggtaata	cggttatcca	cagaatcagg	4352
350	ggataacgca	ggaaagaaca	tgtgagcaaa	aggccagcaa	aaggccagga	accgtaaaaa	4412
352	ggccgcgttg	ctggcgtttt	tccataggct	cegececect	gacgagcatc	acaaaaatcg	4472
354	acgctcaagt	cagaggtggc	gaaacccgac	aggactataa	agataccagg	cgtttccccc	4532
356	tggaagetee	ctcgtgcgct	ctcctgttcc	gaccctgccg	cttaccggat	acctgtccgc	4592
358	ctttctccct	tegggaageg	tggcgctttc	tcaatgctca	cgctgtaggt	atctcagttc	4652
360	ggtgtaggtc	gttcgctcca	agctgggctg	tgtgcacgaa	cccccgttc	agcccgaccg	4712
362	ctgcgcctta	tccggtaact	atcgtcttga	gtccaacccg	gtaagacacg	acttatcgcc	4772
364	actggcagca	gccactggta	acaggattag	cagagcgagg	tatgtaggcg	gtgctacaga	4832
366	gttcttgaag	tggtggccta	actacggcta	cactagaagg	acagtatttg	gtatetgege	4892
368	tctgctgaag	ccagttacct	tcggaaaaag	agttggtagc	tcttgatccg	gcaaacaaac	4952
370	caccgctggt	agcggtggtt	tttttgtttg	caagcagcag	attacgcgca	gaaaaaaagg	5012
372	atctcaagaa	gatectttga	tcttttctac	ggggtctgac	gctcagtgga	acgaaaactc	5072
374	acgttaaggg	attttggtca	tgagattatc	aaaaaggatc	ttcacctaga	tccttttaaa	5132
376	ttaaaaatga	agttttaaat	caatctaaag	tatatatgag	taaacttggt	ctgacagtta	5192
378	ccaatgctta	atcagtgagg	cacctatctc	agcgatctgt	ctatttcgtt	catccatagt	5252
380	tgcctgactc	cccgtcgtgt	agataactac	gatacgggag	ggcttaccat	ctggccccag	5312
382	tgctgcaatg	ataccgcgag	acccacgete	accggctcca	gatttatcag	caataaacca	5372
384	gecageegga	agggccgagc	gcagaagtgg	teetgeaact	ttatccgcct	ccatccagtc	5432

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 05/29/2002
PATENT APPLICATION: US/09/896,896A TIME: 17:50:24

Input Set : A:\0217us210-Sequencelisting-corrMay2002.txt
Output Set: N:\CRF3\05292002\I896896A.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223) fields of each sequence which presents at least one n or Xaa.

```
Seg#:1; Xaa Pos. 495
Seg#:8; Xaa Pos. 5
Seq#:9; Xaa Pos. 6
Seq#:10; Xaa Pos. 7
Seq#:11; Xaa Pos. 4,8
Seg#:12; Xaa Pos. 4,9,14
Seg#:13; Xaa Pos. 5,9,13
Seg#:14; Xaa Pos. 4,7,10
Seg#:15; Xaa Pos. 7
Seg#:16; Xaa Pos. 7,13
Seq#:17; Xaa Pos. 4,7,10
Seq#:18; Xaa Pos. 5,9,12
Seg#:19; Xaa Pos. 5,9,13
Seq#:20; Xaa Pos. 5,9,13
Seg#:21; Xaa Pos. 5,9,13
Seq#:22; Xaa Pos. 4,7,10
Seq#:38; Xaa Pos. 2,4,6,8,10,12
Seg#:39; Xaa Pos. 3,6,9
Seg#:40; N Pos. 22,23,29,35,41,47,53
Seq#:42; N Pos. 21,22,23,30,31,32,39,40,41
Seg#:44; Xaa Pos. 4,12
Seg#:51; Xaa Pos. 2,4
Seq#:57; Xaa Pos. 8
Seg#:82; Xaa Pos. 3
Seg#:98; Xaa Pos. 5
Seg#:99; Xaa Pos. 6
Seg#:101; Xaa Pos. 6
Seg#:114; Xaa Pos. 4,8
Seg#:115; Xaa Pos. 4,8
Seg#:116; Xaa Pos. 5,9
Seg#:117; Xaa Pos. 5,9
Seq#:118; Xaa Pos. 5,9
Seq#:119; Xaa Pos. 4,8
Seq#:120; Xaa Pos. 3,7
```

Seg#:121; Xaa Pos. 3,7